

Attachment F
NOV Response Letter (Submitted 2/26/2021)



February 26, 2021

VIA EMAIL

Erick M. Ammon
Environmental Protection Compliance Specialist
Clean Water Program
PADEP Southcentral Regional Office
909 Elmerton Ave.
Harrisburg, PA 17110
eammon@pa.gov

**Re: Industrial Waste 3-A
Hanover Foods Industrial Wastewater Treatment Plant
NPDES Permit No. PA0044741
Penn Township, York County**

Dear Mr. Ammon:

I am writing on behalf of Hanover Foods Corporation ("HFC") in response to a notice of violation from the Department dated December 29, 2020 ("NOV") related to alleged violations at HFC's Cannery Industrial Wastewater Treatment Plant ("IWTP"). The Department requested a response within 60 days, including a report prepared by a Pennsylvania Professional Engineer. Our engineer, Hugh Archer of Mavickar Environmental Engineering Consultants ("MEC"), has prepared a report submitted to the Department in conjunction with this letter.

The NOV alleged a violation of HFC's NPDES Permit No. PA0044741 ("Permit") regarding Chesapeake Bay nutrient cap loads for the 2020 compliance year, but there is no such violation. Part C.II.C of the Permit allows HFC to obtain nutrient credits for compliance consistent with 25 Pa. Code § 96.8. HFC timely submitted via Greenport, and the Department approved, credits in accordance with HFC's Permit, as reflected in the documentation attached at **Exhibit A**. Accordingly, after further discussions, we believe the Department understands there is no violation with respect to the cap loads. This was reflected in the Department's NPDES Compliance Inspection Report dated January 28, 2021, attached at **Exhibit B**, which acknowledged the Department's approval, but requested submission of the "nutrient tracking supplemental forms" within 30 calendar days upon receipt of the Report. As clarified by the Department on February 23, 2021, we understand that the Department's request for "nutrient tracking supplemental forms" relates to HFC's previously submitted annual electronic Discharge Monitoring Report ("eDMR") for 2020. Specifically, the Department requested that HFC provide a revised eDMR that accounts for the application of nutrient credits. Accordingly, attached at **Exhibit C** is a revised annual eDMR for 2020 detailing total net loadings after application of the acquired nutrient credits. If the Department believes additional documentation is necessary, we would appreciate further clarification. With regard to questions about "missing flow data and daily grab sample results" for

HANOVER FOODS CORPORATION P.O. Box 334, Hanover, PA 17331 | 717.632.6000 |
717.632.6681



certain dates, HFC has confirmed that there were no flows and thus no results for the dates identified by the Department.

The NOV also alleges effluent violations indicated in the eDMRs submitted for July through November 2020. The cause of the issues during this time was the unexpected increase in flow (hydraulic and organic loading) from essential food production to meet the demand of the COVID-19 pandemic, which compounded issues regarding variability in digester operating temperature and seasonal loadings. HFC's food production was critical to keep shelves stocked and the country fed throughout the pandemic, and at the same time HFC was internally dealing with all the challenges associated with continuing essential operations safely. During this time, swift and consistent compliance – or halting or significantly reducing production – were not reasonably practical under the circumstances, particularly given the importance of operations.

HFC took many steps to attempt to prevent, improve, and mitigate the issues identified in the NOV. HFC initially focused on improving consistency of digester operating temperature, converting the boiler to natural gas, treating and removing lagoon sludge bulking, and beginning longterm planning for feasible potential capital improvements to better manage variability in operating temperature and loadings (e.g., potential for a heat exchanger to facilitate efficient use of digesters). HFC's longterm planning efforts were underway early in 2020 to address such issues before the spike in loadings and pandemic were in full swing, but those steps proved difficult as the pandemic continued.

HFC previously provided explanations of its ongoing improvements to the IWTP, including in correspondence to the Department dated October 9, 2020, December 7, 2020, and December 23, 2020. For reference, some relevant efforts and circumstances during 2020-2021 are below:

- January – April 2020 – Planning for potential long-term capital improvements to address issues compounded by COVID-19, and permit renewal. Changed chemical vendor and planned for quarterly meetings.
- May 2020 – Working with new chemical supplier during quarterly review to determine optimal dosages for the coagulant/flocculant with fluctuating organic loadings. Reconfigured polymer injection at the clarifiers to allow for better solids settling.
- June 2020 – Coordinated with Penn Township regarding flow. Isolated Lagoon 1 and initiated multiple rounds of dredging sludge to geobags. Began flowing clarifier water into Lagoon 2 to install a gate valve in the Penn Township effluent pipe at Penn Township's request. Initiated sludge settling with polymer addition in Lagoon 1. Initiated Lagoon 1 dredging of sludge as an annual preventive maintenance and pumped sludge into geobags. While this was happening, process water flow was flowing into Lagoon 2 and being discharged to Penn Township. Began feeding nitrifying bacteria into Lagoon 1 to enhance with the nitrification process. Process water flow was continuing to flow into Lagoon 2 and being discharged to Penn Township. Engaged air consultant to address the conversion of the fuel source in the boiler to natural gas.
- July 2020 – Completed work on gate valve for Penn Township and began refilling Lagoon 1 with process water. Began feeding Digester 1 at incremental flow rate. Continued similar



- efforts as June. Began transition to a new engineer with renewed discussions regarding longterm planning.
- August 2020 – Began utilizing surge tank to blend the varying organic loadings in the wastewater for steady-state operation. Air consultant submitted, and Department approved, Request for Determination for conversion of boiler to natural gas. Worked with utility to arrange gas line for boiler conversion.
 - September 2020 – Continued work with utility and boiler vendor. Utility installed gas regulator for boiler conversion. Continuation of prior efforts to address sludge bulking.
 - October – November 2020 – Discontinued feeding Digester 1 due to flow obstruction. Coordinated with Penn Township regarding flow. Re-initiated sludge settling with polymer addition in Lagoon 1. Continued work with utility and boiler vendor, with gas line trenching and installation for boiler conversion. Engaged MEC as engineer. Obtained nutrient credits from Penn Township to comply with cap loads.
 - December 2020 – Isolated Lagoon 1 for maintenance to surface aerator. Coordinated with Penn Township regarding flow. Continued sludge settling with polymer addition in Lagoons 1 and 2. Began operation of converted boiler. Use of coagulant, geobags, and pumping/dredging for ongoing lagoon sludge removal.
 - January 2021 – Continued same efforts as December 2020. Coordinated with Penn Township regarding flow. Fine-tuning converted boiler operation with vendor.
 - February 2021 – Initiated dredging sludge from Lagoon 1 using new geobags. Obtained permission from Penn Township to increase daily flow at 0.61 MGD from Lagoon 2.
 - Throughout 2020-2021 – Inspected clarifiers daily and cleaned clarifiers routinely, whenever necessary. Daily monitoring and adjustment of chemicals as needed and reflected in bench sheets.

Please keep in mind that we managed the above as safely as possible and on timelines possible during the pandemic when procuring supplies and services was challenging. Moving forward, we have already seen signs that the demand and loadings should return toward typical levels, and HFC has cut production to five days per week as of February 8, 2021. At the same time, we have been preparing for the possibility of similar situations that could arise in the future.

Please note that HFC also transitioned to a new engineer during this time. As requested by the Department, HFC has included a report by HFC's engineer, who we have been diligently working with since October 2020 to improve the IWTP. Overall, HFC has been implementing short-term measures and planning longterm strategies for consistent compliance, including continuing dredging Lagoon 1 and use of geobags, evaluating and developing a plan to pump from Lagoon 1 back to clarifiers, and resuming a feasibility analysis of longterm compliance strategies, including to reduce variability in digester operating temperatures. With such steps, HFC expects to see improvements throughout 2021.



HANOVER
FOODS CORPORATION

HFC has adjusted to the unprecedented and unexpected demand during the pandemic, and remains committed to compliance as demonstrated above. We intend to provide written updates to the Department on our progress every 60 days until further notice.

In the meantime, please let us know if you have any questions or concerns.

Sincerely,

Dave Still
Vice President - Canning Operations

Exhibit A

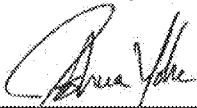


NUTRIENT CREDIT REGISTRATION REQUEST

Credits must be certified and verified before requesting registration.

Registration Requests may only include one credit generator and one buyer.

Registration Requests must include copies of all related valid contracts between generator and buyer.

1.	A. Registration Request Submitter: Joshua Yohe		
	B. Aggregator Information (if applicable)		
	Address:		
	Responsible official or contact:		Phone:
	Title:	Email:	
	C. Credit Generator Information		
	NPDES Permit Number or other identifier (if applicable): PA0037150		
	Site Name: Penn Township		Basin: Oil Creek
	Site Location	County: York	Municipality: Penn Township
	Address: 20 Wayne Ave., Hanover, PA 17331		
	Responsible official or contact: William Mahone		Phone: 717.637.1561
	Title: WWTP Supervisor	Email: pennwwtp@comcast.net	
	Certification ID:	Verification ID:	
2.	Total Credit Registration Requested	N Credits: 5914	P Credits: 418
	For Compliance Year: October 1, 2019 through September 30, 2020		
3.	Name of Credit Buyer: Hanover Foods Corporation		
	NPDES Permit Number or other identifier (if applicable): PA0044741		
	Address: 1486 York Street, P.O. Box 334, Hanover, PA 17331-0334		
	Responsible official or contact: Kumar Navile		Phone: 717.476.1787
	Title: Manager - Environmental Compliance & Sustainability	Email: knavile@hanoverfoods.com	
	Water basin for receiving stream segment nearest the location of the proposed credit buyer: Oil Creek		
4.	Contract Effective Date: November 16, 2020		
5.	Is this a PennVEST sale? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Email or send this completed Registration Request form and all associated documentation to:			
RA-EPPANutrientTrad@pa.gov or PA DEP PA Nutrient Trading Program 400 Market Street – 11 th Floor Harrisburg, PA 17101-8774		Submitter/Responsible Official Signature:  Name: Joshua Yohe Date: 11/16/2020	
I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			

Information related to the PA Nutrient Trading Program is available on the DEP Nutrient Trading website: www.dep.pa.gov/nutrient_trading

3800-FM-BPNPSM0462 3/2012



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: **HANOVER FOODS CORP**
ADDRESS: **PO BOX 3341486 YORK ST, HANOVER PA, 17331-0334**
FACILITY: **HANOVER FOODS CORP**
LOCATION: **PO BOX 3341550 YORK ST, HANOVER PA, 17331-0334**
STAGE: **Effluent Net**

PAD044741	001
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2016	10	01	TO	2017	09	30	

Reporting Frequency: **Annually**
DMR Effective From: **10/01/2016**
DMR Effective To: **09/30/2017**
Permit Expires: **09/30/2020**
Permit Application Due: **04/03/2020**
No Discharge? **No**

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs)	Sample Measurement	***	10298	lbs	***	***	***	***	Calculation	1/year
	Permit Measurement	***	Monitor & Report Total Annual		***	***	***	***	Calculation	1/year
Total Phosphorus (Total Load, lbs)	Sample Measurement	***	1400	lbs	***	***	***	***	Calculation	1/year
	Permit Measurement	***	Monitor & Report Total Annual		***	***	***	***	Calculation	1/year
Total Nitrogen (Total Load, lbs)	Sample Measurement	***	10298	lbs	***	***	***	***	Calculation	1/year
	Permit Measurement	***	Monitor & Report Total Annual		***	***	***	***	Calculation	1/year
Ammonia Nitrogen (Total Load, lbs)	Sample Measurement	***	10297	lbs	***	***	***	***	Calculation	1/year
	Permit Measurement	***	Monitor & Report Total Annual		***	***	***	***	Calculation	1/year
Total Phosphorus (Total Load, lbs)	Sample Measurement	***	1400	lbs	***	***	***	***	Calculation	1/year
	Permit Measurement	***	Monitor & Report Total Annual		***	***	***	***	Calculation	1/year
Facility Comments										

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Extension
Annual_Chapter2012_Spreadsheet (2012).xlsx	Annual Chesapeake Bay Spreadsheet	2017-11-21T13:44:03-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Sheds	Sampling Point ID	Cause Of NC	Corrective Action	Comments
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UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Outfall	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
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OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
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COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
	KUMAR NAVILE		7176328000

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	KUMAR NAVILE	TELEPHONE		DATE		
			AREA CODE	NUMBER	2017	11	21
NAVILEK		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT MONITORING

Version 2.2, 10/15/2020

☒ Continuous Discharge

Facility Name: **HANOVER FOODS CORPORATION**

Municipality: **PENN TOWNSHIP**

Watershed: **OIL CREEK**

TN Cap Load (lbs): **26,385**

TN Delivery Ratio: **0.961**

County: **YORK**

☐ Sewage ☒ Industrial Waste

Compliance Year: **2020**

Outfall: **001**

NPDES Permit No.: **PA0044741**

This permit will expire on: **September 30, 2020**

TP Cap Load (lbs): **879**

TP Delivery Ratio: **0.436**

Sample Date	FLOW MGD	Total Phosphorus (TP)				NH ₃ -N				TKN				NO ₂ +NO ₃ as N				Total Nitrogen (TN)			
		Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day	Q	mg/L	Q	lbs/day
10/1/19	1.058		0.56		4.9		0.115		1.0		2.1		16.5		3.6		33.5		5.90		52.1
10/2/19	1.271																				
10/3/19	1.265		0.51		5.4		0.518		5.5		3.5		36.9		3.5		36.9		7.00		73.9
10/4/19	1.258																				
10/5/19	1.225																				
10/6/19	0.795																				
10/7/19	0.692																				
10/8/19	0.633		0.66		4.5		1.7		9.0		3.6		18.9		4.1		31.6		7.70		49.6
10/9/19	0.905																				
10/10/19	1.066		0.68		6.0		1.03		9.2		2.7		24.0		4.34		38.6		7.64		62.6
10/11/19	0.779																				
10/12/19	0.53																				
10/13/19	0.514																				
10/14/19	0.965																				
10/15/19	1.255		0.81		8.5		0.144		1.5		2.3		24.1	<	4.7	<	49.2	<	7.00	<	73.3
10/16/19	1.479																				
10/17/19	1.121		0.75		7.0		0.492		4.6		3.8		35.5		5.1		47.7		8.90		83.2
10/18/19	0.983																				
10/19/19	0.118																				
10/20/19																					
10/21/19	1.271																				
10/22/19	0.93		0.92		7.1		0.336		2.6		2.5		19.4		4.8		37.2		7.30		56.6
10/23/19	1.093																				
10/24/19	0.791		0.8		5.3		0.126		0.8		2.8		18.5		3.5		23.1		6.30		41.6
10/25/19	0.539																				
10/26/19	0.102																				
10/27/19																					
10/28/19	1.411																				
10/29/19	0.684		0.79		4.5	<	0.1	<	0.6		5.3		30.2	<	0.78	<	4.4	<	6.06	<	34.7
10/30/19	0.701																				
10/31/19	0.853		0.48		3.4	<	0.1	<	0.7		4.9		34.6	<	0.4	<	2.8	<	5.30	<	37.7
11/1/19	0.987																				
11/2/19	0.451																				
11/3/19	0.13																				
11/4/19	0.289																				
11/5/19	0.609		0.27		1.4	<	0.1	<	0.5		2.3		11.7	<	0.88	<	4.5	<	3.19	<	16.2
11/6/19	0.76																				
11/7/19	0.699		0.66		3.8	<	0.1	<	0.5		4.4		25.7	<	0.4	<	2.3	<	4.90	<	28.0
11/8/19	1.072																				
11/9/19	0.672																				
11/10/19	0.573																				
11/11/19	0.725																				
11/12/19	0.809		0.54		3.6	<	0.1	<	0.7		4.2		28.3	<	0.4	<	2.7	<	4.60	<	31.0
11/13/19	0.874																				
11/14/19	0.866		1.2		8.7	<	0.1	<	0.7		9.5		66.6	<	0.4	<	2.9	<	9.90	<	71.5
11/15/19	0.851																				
11/16/19	0.521																				

11/17/19	0.187																		
11/18/19	0.591																		
11/19/19	0.691	0.68	3.9	<	0.1	<	0.6	4.8	27.7	<	0.5	<	2.9	<	5.30	<	30.5		
11/20/19	0.723																		
11/21/19	0.716	1.2	7.2	<	0.1	<	0.6	9.8	58.5	<	0.4	<	2.4	<	10.20	<	60.9		
11/22/19	0.889																		
11/23/19	0.459																		
11/24/19	0.596																		
11/25/19	0.716																		
11/26/19	0.69	0.44	2.5	<	0.1	<	0.6	5.0	28.8	<	0.4	<	2.3	<	5.40	<	31.1		
11/27/19	0.541	0.53	2.4	<	0.1	<	0.5	4.6	20.8	<	0.4	<	1.8	<	5.00	<	22.5		
11/28/19																			
11/29/19																			
11/30/19																			
12/1/19																			
12/2/19	0.421																		
12/3/19	0.532	0.64	2.8		0.269		1.2	11.4	50.6	<	54.0	<	239.5	<	65.40	<	290.2		
12/4/19	0.505																		
12/5/19	0.653	0.15	0.8	<	0.1	<	0.5	1.4	7.6	<	2.3	<	12.5	<	3.70	<	20.2		
12/6/19	0.63																		
12/7/19	0.294																		
12/8/19																			
12/9/19	0.505																		
12/10/19	0.463	<	0.1	<	0.4		0.11	0.4	1.2	4.6	<	2.3	<	8.9	<	3.50	<	13.5	
12/11/19	0.901																		
12/12/19	0.721	0.41	2.5	<	0.1	<	0.6	6.2	37.3	<	0.54	<	3.8	<	6.84	<	41.1		
12/13/19	0.596																		
12/14/19																			
12/15/19																			
12/16/19	0.526																		
12/17/19	0.498	0.31	1.3		0.893		3.7	4.1	17.0	<	2.0	<	8.3	<	5.10	<	25.3		
12/18/19	0.551																		
12/19/19	0.498	<	0.1	<	0.4	<	0.1	<	0.4	1.5	6.2	<	2.9	<	12.0	<	4.40	<	16.3
12/20/19	0.4																		
12/21/19																			
12/22/19																			
12/23/19																			
12/24/19																			
12/25/19																			
12/26/19	0.524	1.0	4.4		0.306		1.3	10.3	45.0	<	0.78	<	3.4	<	11.08	<	48.4		
12/27/19	0.41	0.54	1.8		0.433		1.5	5.4	18.5	<	2.1	<	7.2	<	7.50	<	25.6		
12/28/19																			
12/29/19																			
12/30/19	0.545																		
12/31/19	0.36	0.58	1.8		0.655		2.1	7.0	22.2	<	1.4	<	4.4	<	8.40	<	26.6		
1/1/20	0.379																		
1/2/20	0.647																		
1/3/20	0.258	0.4	0.9		0.662		1.4	5.8	12.5	<	2.1	<	4.5	<	7.90	<	17.0		
1/4/20																			
1/5/20																			
1/6/20	1.062																		
1/7/20	0.985	0.35	2.9		1.18		9.7	5.1	41.9	<	2.1	<	17.3	<	7.20	<	59.1		
1/8/20	0.894																		
1/9/20	1.043	0.33	2.9		0.66		5.7	3.8	53.1	<	2.7	<	23.5	<	6.50	<	56.5		
1/10/20	0.843																		
1/11/20																			
1/12/20																			
1/13/20	0.576																		
1/14/20	0.544	0.51	2.7		1.83		5.6	6.5	34.9	<	1.6	<	8.5	<	8.10	<	43.5		

[illegible]

3/14/20																	
3/15/20																	
3/16/20	1.183																
3/17/20	0.712	0.47	2.8	<	0.1	<	0.6	2.0	11.9	<	4.4	<	26.1	<	5.40	<	38.0
3/18/20	0.676																
3/19/20	0.806	0.52	3.5	<	0.1	<	0.7	1.6	10.8	<	4.4	<	29.6	<	6.00	<	40.3
3/20/20	1.33																
3/21/20																	
3/22/20	0.299																
3/23/20	1.497																
3/24/20	1.179	0.75	7.4		0.22		2.2	4.1	40.3	<	4.3	<	42.3	<	8.40	<	82.6
3/25/20	1.134																
3/26/20	1.389	0.94	10.9		0.276		3.2	5.5	63.7	<	4.2	<	48.7	<	9.70	<	112.4
3/27/20	1.012																
3/28/20	0.122																
3/29/20																	
3/30/20	1.022																
3/31/20	0.766	1.0	6.4	<	0.1	<	0.6	6.7	42.8	<	4.3	<	27.5	<	11.00	<	70.3
4/1/20	0.725																
4/2/20	0.704	1.2	7.0		0.105		0.6	6.9	40.5	<	4.2	<	24.7	<	11.10	<	65.2
4/3/20	0.843																
4/4/20	0.711																
4/5/20	0.563																
4/6/20	0.684																
4/7/20	0.77	1.5	9.6		0.626		4.0	9.7	62.3		6.0		38.5		15.70		100.8
4/8/20	0.65																
4/9/20	0.487	0.55	2.2	<	0.1	<	0.4	3.7	15.0	<	4.7	<	19.1	<	8.40	<	34.1
4/10/20	0.16																
4/11/20																	
4/12/20																	
4/13/20	0.524																
4/14/20	0.672	0.41	2.3		0.16		0.9	3.2	17.9		3.86		21.6		7.06		39.6
4/15/20	0.501																
4/16/20	0.881	0.57	4.2		0.192		1.4	4.6	33.8	<	3.4	<	25.0	<	8.00	<	66.8
4/17/20	0.472																
4/18/20																	
4/19/20																	
4/20/20	0.59																
4/21/20	0.579	0.55	2.7		0.54		2.6	5.2	25.1		2.14		10.3		7.34		35.4
4/22/20	1.168																
4/23/20	1	0.85	7.1		0.62		5.2	6.4	53.4		2.3		13.2		8.70		72.6
4/24/20	1.197																
4/25/20																	
4/26/20																	
4/27/20	1.315																
4/28/20	1.069	1.2	10.7		1.31		11.7	7.0	70.4		5.1		45.5		13.00		115.9
4/29/20	1.015																
4/30/20	0.989	1.1	9.1		0.89		7.3	7.4	61.0	<	4.0	<	33.0	<	11.40	<	94.6
5/1/20	0.273																
5/2/20																	
5/3/20																	
5/4/20	1.156																
5/5/20	0.978	1.5	12.2	<	0.1	<	0.8	7.6	62.0	<	9.0	<	73.4	<	16.60	<	135.4
5/6/20	1.312																
5/7/20	0.563	1.0	5.5	<	0.1	<	0.6	5.2	28.6	<	7.8	<	43.1	<	13.00	<	71.9
5/8/20	1.144																
5/9/20																	
5/10/20																	
5/11/20	77.10.658																

5/12/20	0.791		1.1		7.3		0.304		2.0		5.9		38.9		9.3		61.4		15.20		100.3
5/13/20	0.961																				
5/14/20	0.796		0.66		4.4		0.364		2.4		4.2		27.9		7.5		48.8		11.70		77.7
5/15/20	0.825																				
5/16/20	0.183																				
5/17/20																					
5/18/20	0.639																				
5/19/20	0.68		1.2		6.6		0.112		0.6		5.1		28.9		15.3		86.8		20.40		115.7
5/20/20	0.888																				
5/21/20	0.856		2.1		16.0		0.121		0.9		6.3		45.0		14.66		104.7		20.96		149.6
5/22/20	0.917																				
5/23/20	0.79																				
5/24/20	0.105																				
5/25/20																					
5/26/20	0.961																				
5/27/20	1.002		0.64		5.3		0.866		5.6		2.4		20.1		11.6		96.9		14.00		117.0
5/28/20	0.972		0.84		5.8	<	0.1	<	0.8		4.2		34.0		12.3		99.7		16.50		133.8
5/29/20	0.897																				
5/30/20	0.602																				
5/31/20	0.592																				
6/1/20	0.573																				
6/2/20	0.95		0.51		4.0		0.286		2.3		2.8		22.2		12.2		96.7		15.00		118.6
6/3/20	1.089																				
6/4/20	1.342		0.64		7.2		0.216		2.4		3.4		38.1		11.8		132.1		15.20		170.1
6/5/20	0.535																				
6/6/20	0.535																				
6/7/20																					
6/8/20	0.892																				
6/9/20	0.992		0.87		7.2	<	0.1	<	0.8		4.3		35.6		13.7		113.3		16.00		148.9
6/10/20	1.811																				
6/11/20	2.11		0.66		11.6		0.558		9.8		3.4		59.8		13.6		239.3		17.00		238.2
6/12/20	1.482																				
6/13/20	1.406																				
6/14/20	1.406																				
6/15/20	0.71																				
6/16/20	0.624		0.46		2.4		0.23		1.2		2.8		14.6	<	5.4	<	28.1	<	8.20	<	42.7
6/17/20	0.563																				
6/18/20	0.725		0.16		1.0	<	0.1	<	0.6		1.2		7.3	<	2.7	<	16.3	<	3.90	<	23.6
6/19/20	0.877																				
6/20/20																					
6/21/20	0.681																				
6/22/20	1.011																				
6/23/20	0.941		0.98		7.7		0.01		0.1		6.5		51.6	<	1.3	<	10.2	<	7.80	<	61.2
6/24/20	0.884																				
6/25/20	1.289		0.57		6.1	<	0.1	<	1.1		4.2		45.2	<	1.6	<	17.2	<	5.80	<	62.4
6/26/20	1.393																				
6/27/20																					
6/28/20																					
6/29/20	1.361																				
6/30/20	1.279		0.76		8.0		0.252		2.7		10.3		108.9	<	2.3	<	24.5	<	12.50	<	134.4
7/1/20	0.419																				
7/2/20	0.617		0.53		3.6		5.62		38.3		10.4		70.9		2.4		16.4		12.80		87.2
7/3/20																					
7/4/20																					
7/5/20	0.736																				
7/6/20	1.383																				
7/7/20	1.144		0.53		5.1		7.0		66.8		10.5		100.2		4.7		44.9		15.20		146.0
7/8/20	0.389																				
7/9/20	10.42		0.77		2.7		10.2		35.7		15.1		52.9		4.2		14.7		19.30		67.6

7/10/20	0.139																		
7/11/20	0.19																		
7/12/20	0.39																		
7/13/20	0.757																		
7/14/20	1.266	1.1	11.6	2.23	23.5	7.8	62.4	17.6	185.8	25.40	268.2								
7/15/20	0.815																		
7/16/20	0.815	1.2	8.2	2.39	16.2	5.3	56.4	18.6	126.4	26.90	182.8								
7/17/20	0.997																		
7/18/20	1.174																		
7/19/20	0.681																		
7/20/20	0.724																		
7/21/20	0.857	1.2	8.6	0.274	2.0	5.2	37.2	21.5	163.7	26.79	190.6								
7/22/20	1.264																		
7/23/20	1.146	0.72	6.9	1.03	9.9	3.9	37.3	20.8	198.1	24.79	236.5								
7/24/20	1.091																		
7/25/20	0.212																		
7/26/20																			
7/27/20	1.255																		
7/28/20	1.011	0.87	7.3	3.43	26.9	5.6	47.2	16.3	137.4	21.90	184.7								
7/29/20	0.771																		
7/30/20	1.481	0.88	10.9	0.225	2.8	2.6	32.1	19.2	237.1	21.80	269.3								
7/31/20	1.22																		
8/1/20	0.544																		
8/2/20																			
8/3/20	0.721																		
8/4/20	1.278	0.89	9.5	0.176	1.9	5.5	56.6	18.1	192.9	23.60	261.6								
8/5/20	1.353																		
8/6/20	1.027	0.69	5.8	2.8	24.0	3.0	25.7	13.1	112.2	16.10	137.9								
8/7/20	1.032																		
8/8/20	0.475																		
8/9/20																			
8/10/20	1.093																		
8/11/20	0.992	0.62	5.1	3.64	30.1	4.9	40.5	10.7	88.5	15.60	129.1								
8/12/20	1.055																		
8/13/20	1.094	0.72	6.6	3.61	34.8	6.6	60.2	10.7	97.6	17.30	157.8								
8/14/20	0.925																		
8/15/20	0.784																		
8/16/20	0.475																		
8/17/20	0.795																		
8/18/20	0.884	0.64	4.7	2.51	18.5	3.0	22.1	12.2	69.9	15.20	112.1								
8/19/20	1.016																		
8/20/20	1.103	0.66	6.1	0.928	8.5	2.9	28.7	11.0	101.2	13.90	127.9								
8/21/20	0.54																		
8/22/20	1.447																		
8/23/20	0.696																		
8/24/20	0.864																		
8/25/20	1.06	0.71	6.3	< 0.1	< 0.9	3.6	31.8	11.5	101.7	15.10	133.5								
8/26/20	1.394																		
8/27/20	0.814	0.67	4.5	0.6	4.1	2.9	19.7	11.1	75.4	14.00	95.0								
8/28/20	1.883																		
8/29/20	0.383																		
8/30/20																			
8/31/20	1.066																		
9/1/20	1.085	0.64	5.8	3.13	26.3	4.8	43.4	9.3	84.2	14.10	127.6								
9/2/20	1.502																		
9/3/20	1.666	0.73	10.1	3.16	43.9	5.0	69.5	9.3	128.2	14.30	196.7								
9/4/20	1.324																		
9/5/20	1.077																		
9/6/20	0.951																		
9/7/20	1.114																		

9/7/20																			
9/8/20	1.092																		
9/9/20	1.389	0.76	8.8	<	0.1	<	1.2	2.9	33.6	11.6	134.4	14.50	168.0						
9/10/20	1.77																		
9/11/20	1.372	0.53	7.2	<	0.1	<	1.1	1.8	20.6	11.5	131.6	13.30	152.2						
9/12/20	1.586																		
9/13/20																			
9/14/20	1.468																		
9/15/20	1.319	0.75	6.3		1.49		16.3	3.3	36.3	9.9	108.9	13.20	145.2						
9/16/20	1.224																		
9/17/20	1.334	0.88	6.6		1.39		15.4	3.6	40.1	10.0	111.3	13.60	151.3						
9/18/20	1.469																		
9/19/20	0.606																		
9/20/20																			
9/21/20	1.392																		
9/22/20	1.566	0.79	10.3		4.06		52.7	7.1	92.1	6.2	80.5	13.30	172.6						
9/23/20	1.346																		
9/24/20	1.351	0.76	8.6		2.57		29.0	3.6	40.5	6.4	72.1	10.00	112.7						
9/25/20	1.587																		
9/26/20	1.206																		
9/27/20																			
9/28/20	1.554																		
9/29/20	1.454	0.93	11.3		1.26		15.5	2.8	34.0	7.2	87.3	10.00	121.3						
9/30/20	1.526																		
Avg	0.851	<	0.68	<	5.3	<	0.976	<	7.7	5	38.2	<	6.4	<	52.7	<	11.36	<	68.9
Annual Total Mass Loads (lbs):				<	1936	<	2813	<	13244	<	19294	<	32539	<		<		<	

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: _____
Title: _____

License No.: _____
Date: _____

Monthly Statistics

{*A7951177-1}

**CHESAPEAKE BAY SUPPLEMENTAL REPORT
ANNUAL NUTRIENT BUDGET**

Version 2.2, 10/15/2020

Facility Name: HANOVER FOODS CORPORATION
Municipality: PENN TOWNSHIP County: YORK
Watershed: OIL CREEK
Were Credits Purchased During Compliance Year? Yes
Were Credits Sold During Compliance Year? No
Were Offsets Generated During Compliance Year? No

Compliance Year: 2020 Outfall: 001
NPDES Permit No.: PA0044741
This permit will expire on: September 30, 2020
TN Delivery Ratio: 0.961
TP Delivery Ratio: 0.436

Add Rows		Credits Purchased			
Credit Type	Registration ID	Contract Effective Date	DEP Approval Date	No. Credits Purchased	Pounds (lbs)*
Nitrogen	1269	11/16/2020	11/20/2020	5,914	6,154
Phosphorus	1269	11/16/2020	11/20/2020	418	959

* Pounds (lbs) = No. Credits Purchased / Delivery Ratio

SUMMARY

Annual Total Mass Load (lbs)
Lbs from Credits Purchased
Lbs from Credits Sold
Lbs from Offsets Generated
Annual Net Mass Load (lbs)
Cap Load (lbs)

TN	TP
< 32539	< 1936
6,154	959
0	0
0	0
< 26385	< 977
26,385	979

Compliance Compliance

(Annual Total Mass Load + Lbs from Credits Sold - Lbs from Credits Purchased - Offsets)

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: KUMAR NAVILE
Title: ENVIRONMENTAL MANAGER

License No.: 345887
Date: 11/20/2020

AGREEMENT OF SALE

THIS AGREEMENT OF SALE (the "Agreement") is made this 16th day of November, 2020, by and between,

Penn Township ("SELLER"), a municipality organized and existing under the laws of the Commonwealth of Pennsylvania, with an address of 20 Wayne Avenue, Hanover, PA 17331;

AND

Hanover Foods Corporation ("BUYER"), a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, with an address of 1486 York Street, P.O. Box 334, Hanover, PA 17331-0334.

WITNESSETH:

WHEREAS, SELLER is located in Penn Township, York County, Pennsylvania; and

WHEREAS, SELLER owns and operates a certain wastewater treatment facility (the "Penn Township WWTP") located at 1020 Wilson Avenue, Hanover, PA 17331;

WHEREAS, SELLER was issued NPDES Permit No. PA0037150 by the Pennsylvania Department of Environmental Protection ("DEP");

WHEREAS, BUYER is located in Penn Township, York County, Pennsylvania;

WHEREAS, BUYER owns and operates a certain industrial wastewater treatment plant located at 1486 York Street, Hanover, PA (the "Buyer Plant");

WHEREAS, the BUYER was issued NPDES Permit No. PA0044741 (the "Permit") by DEP to discharge from the Buyer Plant;

WHEREAS, the Permit requires the BUYER to meet certain "Chesapeake Bay Nutrient Requirements" with respect to the Buyer Plant, including nitrogen and phosphorus, as more particularly described in the Permit (the "Requirements");

WHEREAS, the Penn Township WWTP has been operated in such a manner that has allowed SELLER to verify and certify phosphorus water quality nutrient credits ("Credits") within the Susquehanna River Basin of the Chesapeake Bay Watershed (specifically, the Oil Creek Watershed); and

WHEREAS, the BUYER desires to purchase from SELLER, and SELLER desires to sell to the BUYER, certain Credits generated during the 2020 compliance year (10/1/2019 – 9/30/2020) on the terms and conditions hereinafter provided.

NOW, THEREFORE, in consideration of mutual promises set forth herein, the sufficiency of which is hereby acknowledged, and intending to be legally bound, the parties hereto agree as follows:

1. SALE AND PURCHASE OF THE CREDITS.

1.1. SELLER hereby agrees to sell, and BUYER hereby agrees to purchase, the Credits identified in Paragraph 1.2, upon the terms and conditions set forth hereinafter.

1.2. PHOSPHOROUS CREDITS generated by SELLER during the 2020 compliance year and verified by DEP in the amount and at the unit credit purchase price as follows:

1.2.1. Amount: Four Hundred Eighteen Credits (418) for a price of One Thousand, Two Hundred and Fifty Four (\$1,254).

1.2.2. Unit Price: Three Dollars (\$3.00) PER CREDIT.

1.3. NITROGEN CREDITS generated by SELLER during the 2020 compliance year and verified by DEP in the amount and at the unit credit purchase price as follows:

1.3.1. Amount: Five Thousand Nine Hundred Fourteen Credits (5,914) for a price of Eight Thousand Eight Hundred Seventy One (\$8,871).

1.3.2. Unit Price: One Dollar Fifty Cents (\$1.50) PER CREDIT.

1.4. The purchase price set forth in 1.2 and 1.3, in the total amount of \$10,125, is exclusive of all sales, use, excise, or similar taxes, which to the extent applicable, shall be paid solely by the BUYER.

1.5. The BUYER agrees to remit full payment for all purchased Credits to SELLER within thirty (30) days of BUYER's receipt of notification by DEP of the registration of the Credits purchased pursuant to this Agreement and as required by 25 Pa. Code § 96.8.

1.6. The BUYER acknowledges and agrees that:

1.6.1. The Credits may only be used for the Buyer Plant, and may not be assigned, conveyed, or transferred in any fashion (whether by operation of law or otherwise) by the BUYER without SELLER's prior written consent, which consent may not be unreasonably withheld by SELLER;

1.6.2. SELLER is not making any, and has made no, representation, warranty, or covenant regarding:

1.6.2.1. The suitability of the Credits for the Buyer Plant;

1.6.2.2. The likelihood of the Credits satisfying the requirements of the BUYER NPDES Permit (or any successor permit); and

1.6.3. SELLER has, and shall have, no duty, liability, or responsibility in any way relating to or arising out of the Buyer Plant.

1.7. Within a reasonable time following the Verification of nutrient Credits as issued by DEP ("Verification"), SELLER shall provide the BUYER a true, correct, and complete copy of the Verification that verifies the Credits to be sold hereunder, a copy of which shall be attached hereto and incorporated herein by reference as **Exhibit A**.

1.8. SELLER consents to DEP transmitting a copy of said Verification directly to the BUYER. SELLER consents to the BUYER transmitting a copy of this Agreement to DEP for the purpose of Credit registration.

1.9. Each party agrees to execute any and all documents and take such other actions as the other party may reasonably request in order to consummate the transaction provided for herein and to accomplish the purposes of this Agreement.

1.10. This Agreement may be declared null and void at the BUYER's sole option in the event that the 2020 compliance year Credits are not verified by DEP or registered to the BUYER NPDES Permit prior to November 28, 2020 or the end of the 2020 compliance year true-up period.

2. ADDITIONAL REPRESENTATIONS AND WARRANTIES.

2.1. BUYER hereby represents and warrants to and with SELLER that:

2.1.1. BUYER has power and authority to enter into this Agreement and to consummate the transactions contemplated hereby;

2.1.2. BUYER has complied with all applicable laws, rules, and requirements in entering into and delivering this Agreement;

2.1.3. BUYER is entering into this Agreement and purchasing the Credits due to the necessity of securing a source for Credits;

2.1.4. Buyer Plant is located on land owned by BUYER and is located in Penn Township, York County, Pennsylvania;

2.1.5. Neither the execution nor delivery of this Agreement nor the consummation of the transactions contemplated hereby will violate any contract, agreement or other understanding to which BUYER is party or by which it is bound; and

2.1.6. This Agreement, when executed and delivered by BUYER, shall constitute a valid and legally binding obligation of BUYER enforceable in accordance with its terms, except to the extent that the same may generally be rendered unenforceable by reason of any bankruptcy, reorganization or insolvency laws generally affecting creditors' rights and remedies.

2.2. SELLER hereby represents and warrants to and with BUYER that:

2.2.1. SELLER has power and authority to enter into this Agreement and to consummate the transactions contemplated hereby;

2.2.2. Neither the execution nor delivery of this Agreement nor the consummation of the transactions contemplated hereby will violate any contract, agreement or other understanding to which SELLER is party or by which it is bound;

2.2.3. This Agreement, when executed and delivered by SELLER, shall constitute a valid and legally binding obligation of SELLER enforceable in accordance with its terms, except to the extent that the same may generally be rendered unenforceable by reason of any bankruptcy, reorganization or insolvency laws generally affecting creditors' rights and remedies;

2.2.4. SELLER owns and operates a wastewater treatment facility in Penn Township, York County and that the Credits sold hereunder were generated from activities located within the Oil Creek Watershed of the Chesapeake Bay Watershed; and

2.2.5. SELLER shall supply to BUYER such information, certificates, and verifications as may be necessary or convenient to allow BUYER to assure that the Credits are in compliance with the applicable laws, rules, and regulations.

3. MISCELLANEOUS.

3.1. This Agreement contains the entire agreement and understanding between the parties concerning the subject matter hereof, and supersedes any and all prior understandings or agreements, written or oral, between the parties respecting the subject matter hereof.

3.2. This Agreement may not be amended, modified, superseded, cancelled, renewed or extended, nor may any term or condition hereof be waived, except by a written instrument or document signed by all parties hereto or, in the case of a waiver, signed by the party sought to be charged therewith. No waiver by any party of the breach of any provision hereof shall be deemed to constitute a waiver of any continuing or subsequent breach of such provision or any other provision hereof. Except as otherwise provided herein, the rights and remedies expressly granted hereunder shall be cumulative with respect to, and shall not be deemed to exclude, any other rights and remedies to which any party shall be entitled at law or in equity.

3.3. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns, but shall not be assigned by any party without the prior written consent of the other parties (which consent shall not be unreasonably withheld or delayed), as well as any necessary consents or approvals of the applicable regulatory authorities.

3.4. This Agreement shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania. The parties agree that jurisdiction and venue for any questions or disputes hereunder shall only be in the Court of Common Pleas in and for York County, Pennsylvania, and/or the United States District Court serving such County.

3.5. Headings have been set forth for convenience of reference only and shall not be used in construing this Agreement. References to persons or things shall be deemed to refer to such persons or things in the singular or plural and in the masculine, feminine or neuter gender as the context shall require.

3.6. This Agreement shall be deemed to be severable, so that if any provision hereof shall be determined by a court of competent jurisdiction to be invalid or unenforceable, the remaining provisions hereof shall continue to remain valid and enforceable in accordance with their terms.

3.7. All notices shall be in writing, shall be sent to the address contained in the introductory section and shall be considered as delivered:

3.7.1. On the next business day, if sent by telex, telecopy, telegram or overnight carrier; or;

3.7.2. Three (3) days after the postmark, if sent by first class mail.

3.8. Nothing in this Agreement shall be deemed to create any agency, partnership, joint venture, or fiduciary relationship (or duties) between the parties.

3.9. BUYER and SELLER acknowledge and understand that this Agreement may be subject to the Pennsylvania Right to Know Law, 65 P.S. §§ 67.101 et seq. The duties of BUYER and SELLER regarding the Right to Know Law are continuing duties that survive the expiration of this Agreement.

3.10. This Agreement may be executed in any number of counterparts (and delivered by overnight express mail, or by fax with confirmation in writing delivered by overnight express mail), each of which shall be deemed to be an original as against any party whose signature appears thereon, and all of which shall together constitute one and the same instrument. This Agreement shall be binding when one or more counterparts hereof, individually or taken together, shall bear the signatures of all of the parties reflected on this Agreement as the signatories.

[SIGNATURES APPEAR ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, Intending to be legally bound, this Agreement of Sale has been duly executed by the parties hereto as of the day and year first above written.

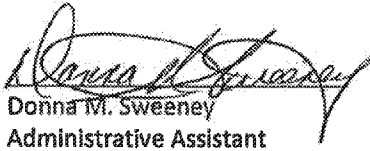
SELLER:

Penn Township

WITNESS/ATTEST:


Kristina J. Rodgers
Township Manager

Nov 16, 2020
DATE


Donna M. Sweeney
Administrative Assistant

11/16/2020
DATE


BUYER:

Hanover Foods Corporation

WITNESS/ATTEST:


Jeffrey A. Warehime
Chief Executive Officer

11/16/2020
DATE


Stephanie Kleinfelter
General Counsel and V.P. of Human Resources

11/16/2020
DATE

EXHIBIT A
PA DEP NUTRIENT CREDIT VERIFICATION



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

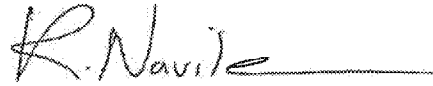
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

NUTRIENT CREDIT REGISTRATION REQUEST

Credits must be certified and verified before requesting registration.

Registration Requests may only include one credit generator and one buyer.

Registration Requests must include copies of all related valid contracts between generator and buyer.

1.	A. Registration Request Submitter: Penn Township		
	B. Aggregator Information (if applicable)		
	Address:		
	Responsible official or contact:		Phone:
	Title:	Email:	
	C. Credit Generator Information		
	NPDES Permit Number or other identifier (if applicable): PA0037150		
	Site Name: Penn Township		Basin: Oil Creek
	Site Location	County: York	Municipality: Penn Township
	Address: 20 Wayne Ave., Hanover, PA 17331		
	Responsible official or contact: William Mahone		Phone: 717.637.1561
	Title: WWTP Supervisor	Email: pennwwtp@comcast.net	
	Certification ID: 720	Verification ID: 938	
2.	Total Credit Registration Requested	N Credits: 5914	P Credits: 418
	For Compliance Year: October 1, 2019 through September 30, 2020		
3.	Name of Credit Buyer: Hanover Foods Corporation		
	NPDES Permit Number or other identifier (if applicable): PA0044741		
	Address: 1486 York Street, P.O. Box 334, Hanover, PA 17331-0334		
	Responsible official or contact: Kumar Navile		Phone: 717.476.1787
	Title: Manager - Environmental Compliance & Sustainability	Email: knavile@hanoverfoods.com	
	Water basin for receiving stream segment nearest the location of the proposed credit buyer: Oil Creek		
4.	Contract Effective Date: 11/16/2020		
5.	Is this a PennVEST sale? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Email or send this completed Registration Request form and all associated documentation to:			
RA-EPPANutrientTrad@pa.gov or PA DEP PA Nutrient Trading Program 400 Market Street - 11 th Floor Harrisburg, PA 17101-8774		Submitter/Responsible Official Signature:  Name: Kumar Navile Date: 11/16/2020	
I certify under penalty of law and subject to the penalties of 18 Pa. C.S. Section 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			

Information related to the PA Nutrient Trading Program is available on the DEP Nutrient Trading website: www.dep.pa.gov/nutrient_trading



November 20, 2020

William Mahone
WWTP Supervisor
Penn Township
20 Wayne Ave.
Hanover, PA 17331
717-637-1561
pennwwtp@comcast.net

Re: Registration of Nutrient Reduction Credits

Dear Mr. Mahone:

The Department of Environmental Protection (DEP) is in receipt of a request for registration ("request"), including a Nutrient Credit Registration Request form (3800-FM-BCW0504) and a copy of a contract/agreement between the credit generator and buyer identified below.

1.	A. Registration Request Submitter: Joshua Yohe		
	B. Aggregator Information (if applicable)		
	Address:		
	Responsible official or contact:		Phone:
	Title:	Email:	
	C. Credit Generator Information		
	NPDES Permit Number or other identifier (if applicable): PA0037150		
	Site Name: Penn Township		Basin: Susquehanna
	Site Location	County: York	Municipality: Penn Township
	Address: 20 Wayne Avenue, Hanover, PA 17331		
	Responsible official or contact: William Mahone		Phone: 717-637-1561
	Title: WWTP Supervisor	Email: pennwwtp@comcast.net	
2.	Credit Buyer Information		
	NPDES Permit Number (if applicable): PA0044741		
	Buyer Name: Hanover Foods Corporation		Basin: Susquehanna
	Buyer Address: 1486 York St., POB 334, Hanover, PA 17331-0334		
	Responsible official or contact: Kumar Navile		Phone: 717-476-1787
	Title: Manager-Environmental Compliance & Sustainability	Email: knavile@hanoverfoods.com	
3.	Contract Effective Date: 11/16/2020		

DEP approval of a registration request indicates that DEP has reviewed the agreement, that credits being traded have been verified and are available for sale, and that other verification requirements of the Nutrient Credit Trading Program, such as baseline and threshold, have been met (See 25 Pa. Code §96.8(f)).

The following nutrient credit trade has DEP approval for registration:

4.	Total Nutrient Credits Traded:		
	For Compliance Year: October 1, 2019 through September 30, 2020		
	Nitrogen Credits: 5,914		Phosphorus Credits: 418
	Credit Generator Information:		
	Certification ID: 720	Verification ID: 938	Registration ID: 1269
	Registration Approval Date: 11/20/20		Registration Expiration Date: November 28, 2020

Once DEP issues a registration ID and a registration date, the approved nutrient credits are registered to the buyer. The buyer may apply these credits to the NPDES permit referenced in this letter or resell the credits to another entity by submitting a new request for registration.

Credits may only be used toward compliance with NPDES permit requirements of the same compliance year in which they were generated. These credits may be applied to an NPDES permit until the end of the trading period for the compliance year listed above (November 28th immediately following the end of the compliance year).

NPDES permit holders shall record the registration ID and credits being applied to meet NPDES permit requirements related to the Chesapeake Bay on their Annual Chesapeake Bay Spreadsheet in the Nutrient Budget tab.

All documents, records, data, or other information related to this registration shall be maintained by Penn Township and Hanover Foods Corporation for a minimum of three (3) years from the expiration date of the related certification.

Pertinent information related to credit certification, verification, and registration, including data on credit generators and buyers, will be published on DEP's Nutrient Trading website at: www.dep.pa.gov/nutrient_trading

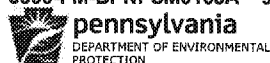
If you have any additional questions regarding this registration of credits, please do not hesitate to contact DEP at RA-EPPANutrientTrad@pa.gov or 717.787.6744.

Sincerely,



Theia Hofstetter
Environmental Group Manager
Operations Division

Exhibit B



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

NPDES COMPLIANCE INSPECTION REPORT

NPDES Permit No. PA0044741	Mo/Day/Yr 1/28/2021	Entry Time	Exit Time	Inspection Type CBAY	eFACTS Inspection ID 3145393
Facility Name: Hanover Foods Corporation			Permittee Name: Hanover Foods Corporation		
Physical Location/Directions: PO Box 334, 1550 York St., Hanover, PA 17331-0334					Permit Expiration Date:
Municipality: Penn Township		County: York		Permit Renewal Application Due:	
Facility Type: <input type="checkbox"/> Sewage <input checked="" type="checkbox"/> Industrial Waste <input checked="" type="checkbox"/> Industrial Stormwater <input type="checkbox"/> Other: <input type="checkbox"/> Major <input type="checkbox"/> Minor					
Responsible Person: Kumar Navile			Certified Operator Required: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Title: Manager of Environmental Affairs and Sustainability			Certified Operator in Responsible Charge:		
Permittee Address: PO Box 334, 1486 York St., Hanover, PA 17331-0334			Client ID:		
			Class-Subclass(es):		
			Circuit Rider: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Business Phone: 717-632-6000			Business Phone:		
Fax:			Cell:		
Email: knavile@hanoverfoods.com			Email:		
24-Hour Emergency Contact Person / Phone: Kumar Navile/717-632-6000					
VIOLATIONS: (list below) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Pending Sample Results					
*Violations will remain in PADEP eDMR/GreenPort systems and EPA ICIS until HFC revises the 2020 CBAY annual report to indicate the Net annual loading (after credits/offsets are applied) rather than the Total (gross) annual loadings for TN & TP.					
Person Interviewed: Kumar Navile		Date: 1/28/2021		Inspector: Brandon Bettinger	
Signature: Sent electronically		Phone No.: 717-632-6000		Inspector Signature: <i>Brandon Bettinger</i>	
Title: Manager of Environmental Affairs and Sustainability		Title: Water Quality Specialist			
Email: knavile@hanoverfoods.com		Email: bbettinger@pa.gov			
This document is official notification that a representative of the Department of Environmental Protection inspected the above facility. The findings of this inspection are shown above and on any attached pages. Any violations which were noted during the inspection are indicated. Violations may also be discovered upon examination of the results of laboratory analyses of the discharge and review of Department records.					

NPDES COMPLIANCE INSPECTION REPORT

Comments
An Administrative Review of Hanover Foods Corporation Chesapeake Bay nutrient monitoring, for the compliance year 2019-2020, was conducted.
The facility used the Chesapeake Bay Supplemental Report of Annual Nutrient Monitoring version 2.2 which was submitted on 11-20-2020.
Permit No. PA0044741 requires sampling for Total Phosphorus (TP), Nitrite-Nitrate, (NO ₂ +NO ₃), Ammonia-Nitrogen (NH ₃), and Total Kjeldahl Nitrogen (TKN) twice per week. A review of the Discharge Monitoring Reports (DMR) for water year 2019-2020 documents that the facility conducted sampling as required by the permit.
The facility's TP annual total mass load of <1936 pounds exceeded their permit TP cap load limit of 979 pounds. The facility was brought into compliance by purchasing 959 pounds of Phosphorus with 418 nutrient credits using Registration ID No. 1269. DEP approval date was 11-20-2020.
The facility's TN annual total mass load of <32539 pounds exceeded their permit TN cap load limit of 26385 pounds. The facility was brought into compliance by purchasing 6154 pounds of Nitrogen with 5914 nutrient credits using Registration ID No. 1269. DEP approval date was 11-20-2020.
Hanover Foods Corporation tracked their nutrient credit purchases on the Annual Nutrient Budget form within the Annual Chesapeake Bay Nutrient Monitoring spreadsheet. The facility did not complete the required nutrient tracking supplemental forms or include the Net Loadings (after nutrient credits were applied) on their eDMR submissions.
A review of three months of laboratory results from LABs, Inc. and eDMR documentation was completed with no discrepancies. However, the facility was missing flow data and daily grab sample results for the following dates: 7/3, 7/4, 7/26, 8/2, 8/9, 8/30, 9/7, 9/13, 9/20, 9/27.
Recommendations:
Recommend completing and submitting the required nutrient tracking supplemental forms within 30 calendar days upon receipt of this report.

Exhibit C

3800-FM-BCW0462 12/2016



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: **HANOVER FOODS CORP**
ADDRESS: **PO BOX 3341486 YORK ST, HANOVER PA, 17331-0334**
FACILITY: **HANOVER FOODS CORP**
LOCATION: **PO BOX 3341550 YORK ST, HANOVER PA, 17331-0334**
STAGE: **Final Effluent**

PA0644741
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Annually**
DMR Effective From: **10/01/2019**
DMR Effective To: **09/30/2020**
Permit Expires: **09/30/2020**
Permit Application Due: **04/03/2020**
No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2019	10	01	TO	2020	09	30	

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs) (1340)	Sample Measurement	***	< 205.20	lbs	***	***	***	***	1/year	Calculation
	Permit Requirement	***	Monitor & Report Total Annual		***	***	***	***	1/year	Calculation
Concentrate Nitrogen (Total Load, lbs) (51400)	Sample Measurement	***	< 263.0	lbs	***	***	***	***	1/year	Calculation
	Permit Requirement	***	Monitor & Report Total Annual		***	***	***	***	1/year	Calculation
Total Phosphorus (Total Load, lbs) (51451)	Sample Measurement	***	< 1000	lbs	***	***	***	***	1/year	Calculation
	Permit Requirement	***	Monitor & Report Total Annual		***	***	***	***	1/year	Calculation
Facility Sampling Point Subtotals										

3800-FM-BCW0462 12/2016



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: HANOVER FOODS CORP
ADDRESS: PO BOX 3341486 YORK ST, HANOVER PA, 17331-0334
FACILITY: HANOVER FOODS CORP
LOCATION: PO BOX 3341550 YORK ST, HANOVER PA, 17331-0334
STAGE: Effluent Net

PA0044741	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Annually
DMR Effective From: 10/01/2019
DMR Effective To: 09/30/2020
Permit Expires: 09/30/2020
Permit Application Due: 04/03/2020
No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2019	10	01	TO	2020	09	30	

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Nitrogen (Total Load, lbs) (01445)	Sample Measurement	***	> 50362	lbs	***	***	***	***	1/year	Calculation
	Permit Requirement	***	26365 Total Annual		***	***	***	***	1/year	Calculation
Total Phosphorus (Total Load, lbs) (01453)	Sample Measurement	***	< 0.77	lbs	***	***	***	***	1/year	Calculation
	Permit Requirement	***	0.79 Total Annual		***	***	***	***	1/year	Calculation
Facility Sampling Point Comments										

3800-FM-BCW0462 12/2016



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
Annual_Chesapeake_Bay_Spreadsheet_2016-2017.xlsx	Annual Chesapeake Bay Spreadsheet	2020-11-20T10:48:00-05:00	Bought sufficient credits from Penn Exp. for compliance.
Annual_Chesapeake_Bay_Spreadsheet_2018-2019.xlsx	Annual Chesapeake Bay Spreadsheet	2021-03-23T14:28:49-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Event Type	Reported Value	Permit Limit	Unit	Sampling Point	Causes Of Non-Compliance	Corrective Action	Comments
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UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Residue (lb/gal)	Reaching Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Signatures
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OTHER PERMIT VIOLATIONS

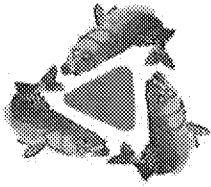
Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
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COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	Evo E. Kestor	046444	717-662-8045

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 60, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Kumar Navile	TELEPHONE		DATE		
			(717)	476-1787	2021	02	23
navilek		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



MAVICKAR Environmental Engineering Consultants
Environmental Engineers & Planners

P.O. Box 61620
1425 Crooked Hill Road
Harrisburg, PA 17106-1620

Phone: 717-574-1618

February 26, 2021

Mr. Victor Landis, Regional Operations Section Chief
Clean Water Program
Department of Environmental Protection
909 Elmerton Avenue
Harrisburg, PA 17110-8200

Re: Hanover Foods Corporation, Inc
NPDES Permit No. PA 0044741
PENN Township, York County

Dear Mr. Landis:

In response to the Department's NOV dated December 29, 2020, kindly accept this documentation, prepared by Mavickar Environmental Engineering Consultants (MEC).

Hanover Foods has previously informed the Department, in letters dated 12/7/2020 and 12/23/2020, of effluent non-compliance due principally to sludge bulking in Lagoon 1. Based on sample results received for the first two weeks of December, it would appear that the non-compliance issue may have been addressed through appropriate use of an effective coagulant in Lagoon 1.

The COVID-19 pandemic that begun in the early spring of 2020, resulted in the closing of many restaurants in the Commonwealth. This drove consumption of and demand for canned food supplies, higher than usual; placing a greater production demand on Hanover Foods. Consequently, wastewater flows and organic loadings to the wastewater treatment facilities increased and continues to adversely affect final effluent quality.

A review of the influent/effluent into and out of Lagoon 1, [attached spreadsheet] shows that Lagoon 1 is now acting as an aerobic biological reactor for the excess organic loadings, escaping digester treatment. With excess biological solids eventual build-up, in Lagoon 1, there will be solids carry-over to the Penn Township supplemental flow and Lagoon 2, and effluent quality will again be degraded, resulting in potential NPDES permit non-compliance.

MAVICKAR ENVIRONMENTAL ENGINEERING CONSULTANTS, LLC
Civil and Environmental Engineers, Hydrogeologists and Environmental Planners

Actions to immediately and effectively address the increased flow and organic loadings are at present being focused in two areas: (1) Decrease the excess solids being generated in Lagoon 1 by consistently removing excess solids and providing additional effluent clarification; and (2) The Treatment efficiency of the Anaerobic Digester is not at an optimum level, due to the inability to achieve and maintain the required design temperature. A technical review has begun seeking to identify the most cost-effective alternative to bringing Digester temperature consistently up to design levels.

The short-term plan to achieve and maintain effluent quality, until we can increase digester treatment efficiencies, will be to enhance Lagoon 1's biological treatment capability (increase DO to be maintained at a minimum of 3 mg/l), with Lagoon 1 effluent being returned to clarifiers 1 for solids removal. This is to be supported by solids removal from Lagoon 1, as often as possible, for beneficial reuse in agricultural crop production.

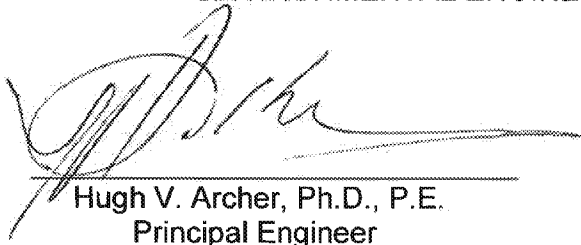
Immediate Priority Objectives:

1. **Immediately begin a continuous emptying of the existing bagged solids and replacing them with empty solids drying bags, and removal of excess solids from Lagoon 1. This has already begun and will continue. We expect to see improvement in Lagoon 1 solids handling within the next 30 to 45 days.**
2. **Immediately begin the process of identifying and implementing how best to take Lagoon 1's effluent back for additional clarification to the No 1 clarifiers. Hanover Foods currently has the capability to return MLSS from Lagoon 1 back to the Digester 1 clarifiers. These submersible pumps may not be large enough to return the necessary flow, however and may have to be replaced or supplemented.**
3. **Commission an evaluation as to how best to increase [bring to design levels] Digester operating temperatures. If an alternative is found to be cost-effective, apply for DEP approval and implement.**

MEC is committed to providing the Department with updates, every sixty days, of the three primary objectives shown above including documentation of final effluent quality.

If you have any questions concerning the information presented above, please do not hesitate to contact us. We may be reached at (717) 574-1618.

Respectfully submitted,
MAVICKAR ENVIRONMENTAL ENGINEERING CONSULTANTS



Hugh V. Archer, Ph.D., P.E.
Principal Engineer

MAVICKAR ENVIRONMENTAL ENGINEERING CONSULTANTS, LLC
Civil and Environmental Engineers, Hydrogeologists and Environmental Planners

cc: DEP ... Maria Benbenek; ... Daniel Martin ... & Aaron Baar
Hanover Foods ... Dave Stills ... Kumar Navile ... Eric Eckersley

MAVICKAR ENVIRONMENTAL ENGINEERING CONSULTANTS, LLC
Civil and Environmental Engineers, Hydrogeologists and Environmental Planners

LAGOON-1 DEC. 2020

Date:	DO East	DO South	DO West	DO North	Temp.	EFF TSS	EFF NH3	EFF PO4	EFF NO3	EFF pH	EFF Alk	EFF COD	EFF CBOD5	INF COD	INF CBOD5	INF TSS	INF PO4	INF NH3	INF Temp
1	4.1	4.3	4	3.9	55	330	0.1	6.1	0.145	7.98	500	440	33.5	2140	164.8	60	1.4	2.3	72
2	4.2	4.5	4	4	54	347								1765	135.9	143			71
3	4.1	4.4	4.1	3.9	54	334									74				71
4	0.8	1.3	0.9	0.6	55	318								2015	155.2	277			73
5																			
6																			
7	0.6	1	0.9	0.5	54	313								2224	171.2	164			76
8	0.5	0.9	0.7	0.3	54	317	0.2	5.4	0.221	7.54	570	998	76.8	1730	133.2	191	8.7	4.8	76
9	0.8	1.2	0.9	0.5	52	346								1918	147.7	226			73
10	0.7	1	0.7	0.4	53	351								2174	167.4	673			75
11	1.2	1.3	0.9	0.7	55	345								1657	127.6	181			77
12																			
13																			
14	1.5	1.8	1.2	0.9	53	316										258			74
15	1.3	1.2	1	0.6	55	324	0.2	8.9	0.372	7.68	650	1168	89.5	1858	143.1	296	12.5	0.3	77
16	0.9	0.6	0.9	0.4	57	342								1948	150.0	558			80
17														1432	110.3				
18	1.1	0.9	1	0.6	55	305										126			78
19																			
20																			
21	0.5	0.8	0.3	0.1	54	234										66			79
22	0.6	0.7	0.2	0.2	56	236	1.6	9.6	0.197	7.59	680	870	67.0	1512	116.4	268	6.1	3.7	78
23						219								1928	148.5	340			
24																			
25																			
26																			
27																			
28	2.3	2.6	2.3	2.4	58	217								2820	217.1	460			83
29	2.1	2.3	2	1.1	55	243	0.8	8.7	0.248	7.7	870	896	69.0	2520	224.9	296	9	27.4	84
30	2	2.2	1.5	0.9	50	237										235			85
31	0.9	0.7	0.2	0.1	49	339								2270	174.8	232			82
AVERAGES	1.59	1.77	1.46	1.16	54.00	300.65	0.62	7.74	0.24	7.72	654.00	874.40	67.33	2019.44	168.50	248.40	7.54	7.70	77.26

Note: All values are mg/L except temperatures, which are degrees Fahrenheit.

[Surface Area = 1.5 Acres - Volume = 7.5 MG.]

[CBOD5 = 7.7% of COD]